Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number).
Keep this manual and the receipt in a safe and dry place for future reference.

ITEM 69869

12 VOLT

Haul Master®

Magnetic LED TOW LIGHT KIT

Visit our website at: http://www.harborfreight.com
Email our technical support at: productsupport@harborfreight.com

REV 13k

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools.
Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.

⚠WARNING

Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

Specifications

Electrical Requirements	12 VDC
Connector	4-way Flat

Important Safety Information

1. **Observe posted speed limits to prevent lights from blowing off.**
2. **Securely attach lights to vehicle before moving. Loose lights are a traffic hazard.**
3. **Thoroughly test vehicle lights and tow lights before use.**
4. Mount lights in proper orientation. Amber lights must face forward and red lights must face backward. Improper orientation can confuse or distract drivers, causing a traffic hazard.
5. Install on a 12VDC negative ground circuit only. Installing on different circuit can result in electric shock, fire, or property damage.
6. Turn off vehicle and set the parking brake before installation or testing.
7. Do not use on marine trailers (such as boat trailers). Not waterproof.
8. Wear ANSI-approved impact safety goggles and heavy-duty work gloves during installation and use.
9. Do not modify the Towing Light Kit and do not use the Towing Light Kit for a purpose for which it was not intended.
10. Inspect before use; do not use if parts are loose or damaged. Inspect wires and connections for insulation damage or loose wires and repair before use.
11. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure.
12. WARNING: Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling. (California Health & Safety Code § 25249.5, *et seq.*)
13. This product is not a toy. Keep it out of reach of children.
14. Check light position and function regularly when towing, especially on rough or uneven surfaces, or in windy conditions. The magnets may loose their grip on the vehicle under extreme circumstances.
15. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

⚠SAVE THESE INSTRUCTIONS.

Wiring

Note: Some towing vehicles may already have a 4-way Flat Connector, "Trunk" plug wired in. For those vehicles, skip the following wiring instructions.

If you do not have experience doing this type of automotive electrical wiring or if the wiring in your vehicle differs from that explained below, have an automotive service technician connect the wiring.

1. Identify the towing vehicle's wires in the trunk that correspond to the circuits indicated in Figure A. The white ground wire from the Pigtail (22) may be connected to a bolt or appropriate component on the vehicle to establish a ground instead of a ground wire.

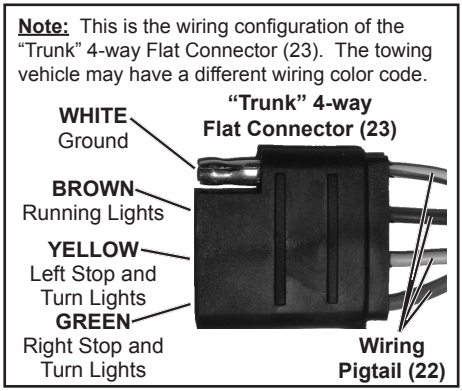

Note: This is the wiring configuration of the "Trunk" 4-way Flat Connector (23). The towing vehicle may have a different wiring color code.
"Trunk" 4-way Flat Connector (23)
WHITE Ground
BROWN Running Lights
YELLOW Left Stop and Turn Lights
GREEN Right Stop and Turn Lights
Wiring Pigtail (22)

Figure A: Wiring Color Code

2. Connect the wires from the Wiring Pigtail (22) to the proper vehicle circuit wires using Wire Splices (21). When the supplied splices are used, generally no wire stripping or cutting would be required. Follow these three steps and refer to Figure B:
   a. Insert the end of the Pigtail (22) wire into the 'dead-end' channel of the Splice. Insert the wire all the way to the end of the channel as shown.
   b. Place the Splice around the correct vehicle circuit wire.
   c. Make sure both wires stay properly in place while the cover is closed until it snaps together.

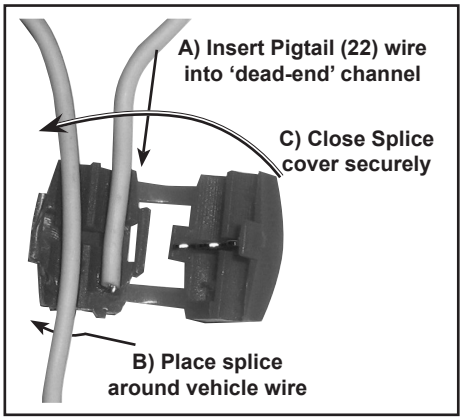


Figure B: Wire Splice (21) Usage

3. Verify that all wires are held securely.
4. Plug the "Trunk" Connector (23) into the "Trailer" Connector (18).

⚠WARNING! If the Wire Splices (21) are used improperly and damage the vehicle's wiring, the vehicles rear lights may fail, resulting in a traffic hazard. Have an assistant operate the vehicle's lights while you carefully check that the vehicle lights and the towing lights all work properly after installation.
If any function of the vehicle or towing lights does not work, do not drive the vehicle. Carefully inspect the splice connection and the circuit that failed and repair the problem and retest before use.

5. Disconnect the "Trailer" Connector (18) if the light kit is not going to be used yet.

Set up

1. To help avoid scratches, clean the mounting locations and clean the protective labels under the lights.
2. Set the lights on the back of the vehicle being towed so that the RED side of each light faces backwards. Set the light that has a green wire on the right side and the light that does not have a green wire on the left side.
3. Make sure all wires are secured with enough slack to prevent binding when turning, but controlled enough to prevent roadway or moving part contact. When routing the wires along the trailer, avoid sharp objects, tight corners and exposure to the elements. Keep away from moving parts. Secure with cable ties where necessary and use rubber grommets when passing through cut-outs.
4. Plug the “Trunk” Connector into the “Trailer” Connector.
5. **⚠WARNING! Have an assistant operate the vehicle’s lights while you carefully check that the vehicle lights and the towing lights all work properly.**
   - Both tow lights should illuminate when the towing vehicle’s running lights are switched on.
   - The tow lights should both light brightly as you apply the brake.
   - The tow light with a green wire should blink brightly with the right turn signal.
   - The tow light without a green wire should blink brightly with the left turn signal.

   If ANY function of the vehicle lights or towing lights does not work, do not drive the towing vehicle until all lights are repaired and retested successfully.
6. The tow light kit is now ready for use. It will automatically illuminate when turn and brake pedal or turn signals in the towing vehicle are used.
7. **⚠WARNING! Check light position and function regularly when towing, especially on rough or uneven surfaces.** The magnets cannot hold the lights to the vehicle in extreme circumstances.
8. After towing, disconnect “Trailer” Connector, remove tow lights from towed vehicle, clean with a moist cloth, and store in dry location out of reach of children. Do not drag the magnetic bases to disconnect, as they may scratch the body paint. Push to tilt then remove.

Parts List and Diagram

Part	Description	Qty
1	Amber Front Lens	2
2	Red Rear Lens	2
3	Bracket	2
4	Circuit Board with Amber LED	2
5	Circuit Board with Red LED	2
6	Shell	2
7	Screw	2
8	Cover	2
9	Magnet	2
10	Nut	2
11	Screw	8

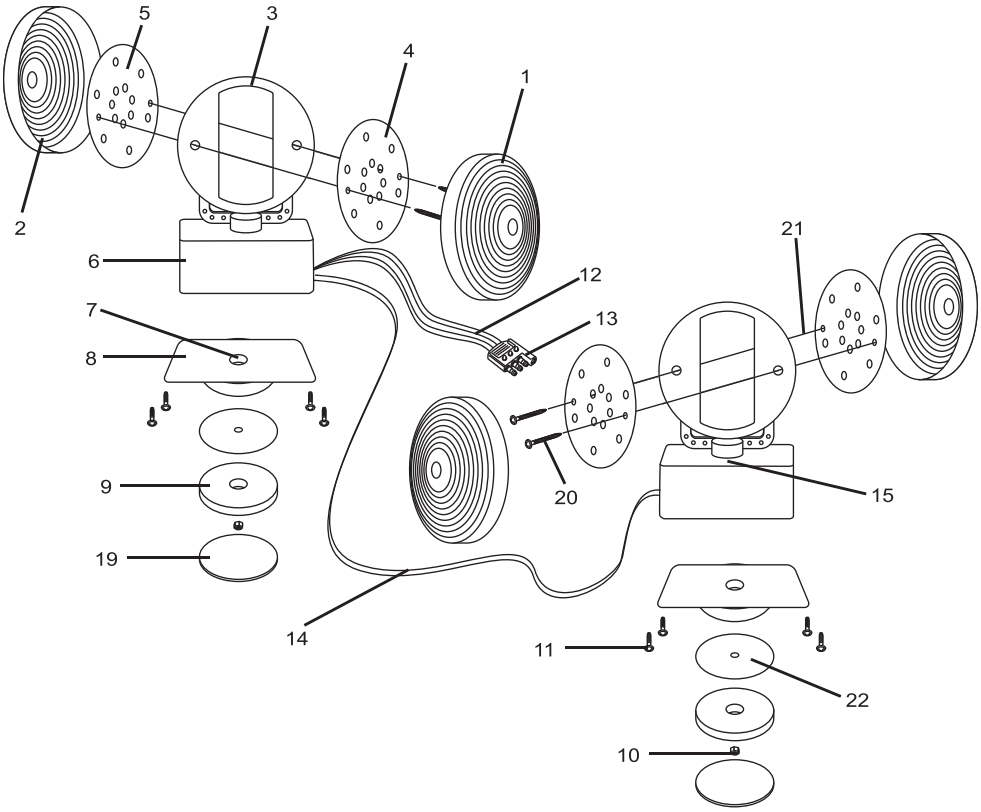
Part	Description	Qty
12	Power Cord	1
13	“Trailer” 4-way Flat Connector	1
14	Left-Right Cord	1
15	LED Wire	6
16	Wire Splice	4
17	Wiring Pigtail	1
18	“Trunk” 4-way Flat Connector	1
19	Protective Label	2
20	Screw (M3 x 16)	4
21	Nut (M3)	4
22	Metal base	2

Record Serial Number Here:_____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

Assembly Diagram



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To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.